

CLAIMS

1. A hydrophilic polyurethane foam composition for use as
a pad in the topical treatment of the skin comprising the reaction
5 product of:

an aqueous mixture including water which is present in an
amount from about 15 to about 95% by weight of the aqueous mixture
and at least one skin conditioning agent present in an amount from
about 0.5 to about 3.5% by weight of the aqueous mixture; and

10 a hydrophilic polyurethane prepolymer of from about 20 to
about 50% by weight of the total composition.

2. The composition of claim 1 wherein the aqueous mixture
further includes at least one surfactant present in an amount of from
about 0.5 to about 5% by weight of the aqueous mixture.

15 3. The composition of claim 1 wherein the skin
conditioning agent is selected from the group consisting of vitamins,
mineral salts, trace elements, plant extracts, animal extracts, proteins,
and enzymes.

4. The composition of claim 1 wherein the skin
20 conditioning agent is vitamin E.

5. The composition of claim 1 wherein the skin
conditioning agent is vitamin A.

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6. The composition of claim 1 wherein the skin conditioning agent is aloe.

7. The composition of any one of the preceding claims wherein the aqueous mixture further includes one or more additives
5 selected from the group consisting of soaps, bactericides, or fungicides.

8. A method for producing a foam pad having one or more skin conditioning agents comprising the steps of:

a) forming an aqueous mixture having at least one skin conditioning agent and water in a quantity sufficient for the
10 mixture;

b) metering a predetermined amount of hydrophilic urethane prepolymer with said aqueous mixture to form a foam layer of composite material, and

c) converting the foam layer into a desired shape for
15 use.

9. A method for producing foam pads having one or more skin conditioning agents comprising the steps of :

a) metering and mixing an aqueous mixture having at least one skin conditioning agent and adequate water, with a
20 predetermined ratio of hydrophilic urethane prepolymer to provide a polymerizing mixture for forming the foam layer of the composite material;

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b) depositing the polymerizing mixture on releasable bottom paper disposed on a moveable carrier and covering the upper surface of the polymerizing mixture with releasable top paper as the polymerizing mixture is moved with the carrier;

5 c). advancing the polymerizing mixture in the top and bottom release paper by moving the carrier and sizing the foam layer being formed to the desired thickness until it is tack free;

d) sequentially removing the top and bottom releasable paper and simultaneously drying the sized and formed foam
10 layer to remove residual moisture.